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PATENT APPLICATION

THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Docket No: Q79424

Kazuhiko ISHIKAWA, et al.

Appln. No.: 10/780,731

Group Art Unit: 1632

Confirmation No.: 4033

Examiner: Unassigned

Filed: February 19, 2004

For: HEAT-RESISTANT DNA LIGASE

INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. §§ 1.97 and 1.98

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56, Applicant hereby notifies the U.S. Patent and Trademark Office of the documents which are listed on the attached PTO/SB/08 A & B (modified) form and/or listed herein and which the Examiner may deem material to patentability of the claims of the above-identified application.

One copy of each of the listed documents is submitted herewith.

The present Information Disclosure Statement is being filed before the mailing date of the first Office Action on the merits, and therefore, no Statement under 37 C.F.R. § 1.97(e) or fee under 37 C.F.R. § 1.17(p) is required.

The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant does not

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U.S. Appln. No. 10/780,731

waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application.

The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account. A duplicate copy of this paper is attached.

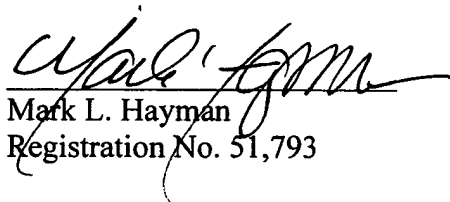
Respectfully submitted,

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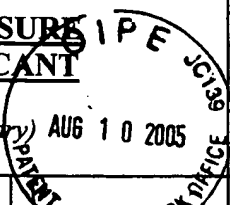
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23373

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Date: August 10, 2005

Substitute for Form 1449 A & B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>			<i>Complete if Known</i>	
			Application Number	10/780,731
			Confirmation Number	4033
			Filing Date	February 19, 2004
			First Named Inventor	Kazuhiko ISHIKAWA
			Art Unit	1632
			Examiner Name	Unassigned
			Attorney Docket Number	Q79424
Sheet	1	of		

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number	Kind Code ² (if known)		
		US			
		US			
		US			
		US			
		US			
		US			
		US			
		US			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Translation ⁶
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)			
		JP	20000308494		07/11/2000	Imanaka Takayuki	Abstract
		EP	0 571 880	A1	12/01/1993	Dr. Arnulf Kletzin	No
		WO	94/02615	A1	02/03/1994	Albert P. Halluin	In English

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation ⁶
		Database UniProt: "DNA ligase (EC 6.5.1.1) (Polydeoxyribonucleotide synthase 'ATP') UNIPROT: and Database accession no. Q9YD18.	Yes
		Kawarabayasi, Yutake et al., "Complete Genome Sequence of an Aerobic Hyper-thermophilic Crenarchaeon, <i>Aeropyrum pernix</i> X1, DNA Research, Vol. 6, No. 2, 83-101 (1999)	In English
		Kletzin, Arnulf, "Molecular characterization of DNA ligase gene of the extremely thermophilic archaeon <i>Desulfurolobus ambivalens</i> shows close phylogenetic relationship to eukaryotic ligase	In English
		Sung-Jong Jeon, "A novel ADP-dependent DNA ligase from <i>Aeropyrum pernix</i> K1," FEBS Letters Vol. 550, No. 1-3, (August 28, 2003), 69-73	In English

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kind Codes of USPTO Patent Documents at www.uspto.gov, MPEP 901.04 or in the comment box of this document. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to indicate here if English language Translation is attached.